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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/934,037	09/19/97	ANTOUN	G 12930.08

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EXAMINER

SMITH, M

ART UNIT

3722

PAPER NUMBER

3

DATE MAILED: 09/17/98

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

# Office Action Summary

Application No.

08/934,057

Applicant(s)

Antoun

Examiner

Monica Smith

Group Art Unit

3722



☒ Responsive to communication(s) filed on Sep 19, 1997

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-13 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-13 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 3

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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**DETAILED ACTION**

This is a first Office action on the merits on application number 08/934,057 filed 9/19/97.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4 and 7-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over McConkey (5,297,657) in view of Potter (5,522,707).

McConkey discloses a high pressure coolant system 10 for machine tools comprising at a pump 14 for providing coolant to at least one tool with at least one coolant orifice means (col. 3, lines 57-58), the orifice means having a flow area (col. 5, lines 26-28); an electrical pump motor 38 operatively connected to said pump (fig. 1), a coolant supply line 26 (outlet hose), a coolant return line 49, a coolant reservoir 12, and a coolant filter 20.

McConkey discloses all the elements as claimed except for the following: an AC electric pump motor, at least one fluid pressure transducer, a variable frequency drive, and a computer to monitor coolant pressure.

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Potter discloses a variable frequency drive system for fluid delivery systems comprising a variable frequency drive 28 electrically connected to a pump motor (col. 3, lines 29-30) and providing AC power thereto (col. 3, line 25). Potter further discloses the use of a programmable microcomputer (col. 3, lines 50-51) for monitoring coolant pressure via a fluid pressure transducer 40 (col. 3, lines 53-55).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the AC pump motor, the variable frequency drive system, the programmable microcomputer, and the transducer in the coolant system of McConkey, as taught by Potter, for higher operating flexibility of the pump at variable speeds.

3. Claims 5-6, and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over McConkey (5,297,657) in view of Potter (5,522,7070) and further in view of Remillard et al. (4,322,992).

McConkey and Potter disclose the claimed invention except for a coolant catch pan and a coolant filter in said catch pan.

Remillard et al. discloses a chip washing system comprising a chip pan 31 for receiving metal chips having a base 12 and a filter screen 32 for receiving fluid flow and chips (col. 3, lines 23-30).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the chip pan in the coolant system of

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McConkey as modified by Potter, as taught by Remillard et al., to aid the filtering system in removing chips from the fluid flow and prevent chips from entering the reservoir.

***Conclusion***


4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cox, Jr. et al. discloses an apparatus for controlling coolant flow and Maastricht discloses a coolant system for cutting tools in a machine tool.

***Contact Information***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica Smith whose telephone number is (703) 305-0305. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, A.L. Pitts can be reached on (703) 308-2159. In order to reduce pendency and avoid potential delays, Group 3722 is encouraging FAXing of responses to Office Actions directly into the Group at (703) 305-3579. This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a PTO deposit account. Please identify the examiner and art unit at the top of your cover sheet. Papers submitted via FAX into group 3722 will be promptly forwarded to the examiner.

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September 11, 1998

  
Andrea L. Pitts  
Supervisory Patent Examiner  
Group 3700  
10-14-98